



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Docket No.: TI-30916

Lior Ophir et al.

Art Unit: 2631

Serial No: 09/887,490

Examiner: TBD

Filed: 06/22/2001

For: SYSTEM AND METHOD OF DATA COMMUNICATION USING TURBO
TRELLIS CODED MODULATION COMBINED WITH CONSTELLATION
SHAPING WITH OR WITHOUT PRECODING

Technology Center 2600

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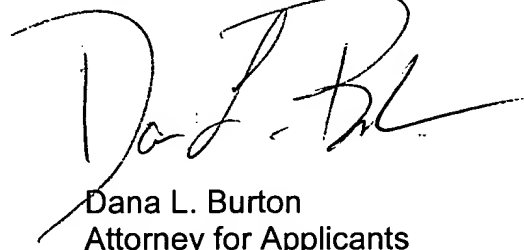
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European case.

Serial No: 09/887,490
TI-30916

The enclosed articles and/or patents listed on the attached PTO 1449 form are deemed relevant to the examination of the subject application.

Please charge any fees to deposit account 20-0668 of Texas Instruments Incorporated.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'D.L. Burton', written over a horizontal line.

Dana L. Burton
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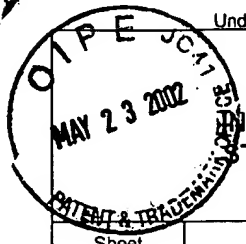


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Complete If Known

Application Number	09/887,490
Filing Date	06/22/2001
First Named Inventor	Lior Ophir et al.
Group Art Unit	2631
Examiner Name	Unknown
Attorney Docket No.	TI-30916

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam. Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	"Multilevel Codes: Theoretical Concepts and Practical Design Rules", IEEE Transactions on Information Theory, Vol. 45, No. 5, July 1999 (1999-07), pages 1361-1391, XP002187530, New York, US, Section VIII, (UDO WACHSMANN, ROBERT F.H. FISCHER and JOHANNES B. HUBER)	
	CB	"The Art of Signaling: Fifty Years of Coding Theory", IEEE Transactions of Information Theory, Vol. 44, No. 6, June 1998 (1998-06); pages 2561-2595, XP002187531, Sections I.G, I.H and I.J, (A. R. CALDERBANK)	
	CC	"Multilevel Coding: Aspects from Information Theory", IEEE Global Telecommunications Conference, 18 November 1996 (1996-11-18) - 22 November 1996 (1996-11-22), pages 26-30, XP010219990, New York, US; Section 4, (ROBERT F.H. FISCHER, JOHANNES B. HUBER and UDO WACHSMANN)	
	CD	"Applications of Error-Control Coding", IEEE Transactions on Information Theory, Vol. 44, No. 6, October 1998 (1998-10), pages 2531-2560, XP002187532, New York, US, ISSN: 0018-9448, Abstract, (DANIEL J. COSTELLO, JR., JOACHIM HAGENAUER, HIDEKI IMAI, and STEPHEN B. WICKER)	
	CE	"Trellis Precoding: Combined Coding, Precoding and Shaping for Intersymbol Interference Channels", IEEE Transactions on Information Theory, Vol. 38, No. 2, March 1992 (1992-03), pages 301-314, XP000257684, New York, US, Abstract, (M. VEDAT EYUBOGLU and G. DAVID FORNEY, JR.)	
	CF	"Two Approaches to Multilevel QAM Coding", IEEE International Symposium on Information Theory, 16-21 August 1998, page 208, XP010296850, New York, US, The Whole Document, (ANAND R. OKA, SHRAGA BROSS and SHLOMO SHAMAI(Shitz))	
	CG	"Turbo Codes with Non-Uniform Constellations", IEEE International Conference on Communications, 11-14 June 2001, pages 70-73, XP002187533, Piscataway, USA, IEEE, US, Page 70, left-hand column, paragraph 2, (CHRISTINE FRAGOULI, RICHARD D. WESEL, D. SOMMER and G.P. FETTWEIS)	
	CH	"The Effect of a Precoder on Serially Concatenated Coding Systems with an ISI Channel", IEEE Transactions on Communications, Vol.49, No. 7, July 2001 (2001-07), pages 1168-1175, XP002187534, New York, US, ISSN: 0090-6778, Abstract, (INKYU LEE)	
	CI	"Precoding for Block Signalling and Shaped Signal Sets", IEEE International Conference on Communications, 11-14 June 1989, pages 1086-1090, Vol. 2, XP000075283, 1989, New York, NY, USA, IEEE, USA, Abstract, (S. KASTURIA and J.M. CIOFFI)	
	CJ	"A Simple and Effective Precoding Scheme for Noise Whitening on Intersymbol Interference Channels", IEEE Transactions on Communications, Vol. 41, No. 10, October 1993 (1993-10), pages 1460-1463, XP000398022, New York, US, Abstract, (RAJIV LAROA, STEVEN A. TRETTER and NARIMAN FARVARDIN)	

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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